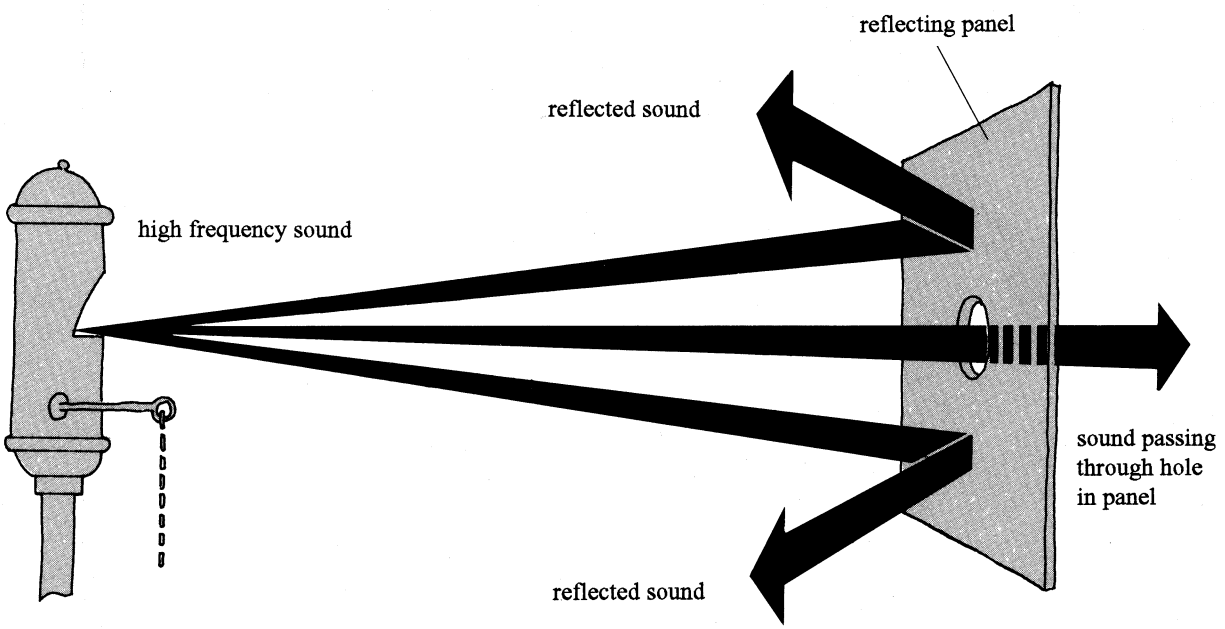
HIGH FREQUENCY SOUND IS HIGHLY DIRECTIONAL AND EASY TO REFLECT

When high frequency sound strikes a hard surface, it is reflected just as light is reflected from a mirror, but passes directly through any holes in the surface without change of direction. High frequency sound does not bend around corners.

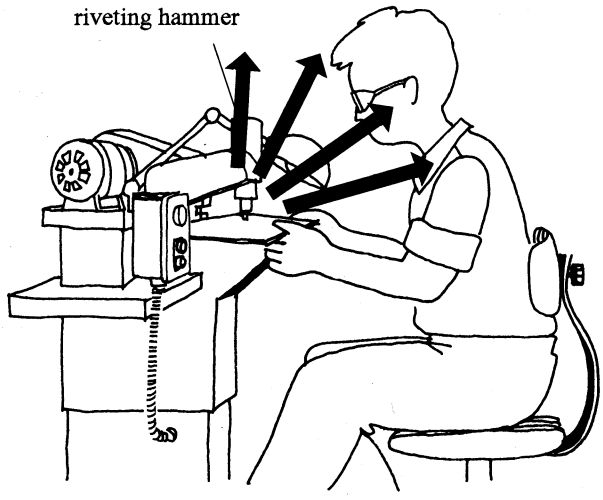
Principle



Application of screening high frequency noise

EXAMPLE

High frequency noise travels directly from the high-speed riveting machine to the worker's ears.



CONTROL MEASURE

A sound-isolating enclosure, open at the bottom of the side facing the operator, is installed around the machine. The inside surfaces of the enclosure are lined with sound-absorptive material, for example, foam plastic. The upper portion of the side facing the operator is fitted with safety glass. The glass reflects the sound directed at the ears of the operator to the sound-absorptive lining. The sound level at the ears of the operator is reduced accordingly.